



Product Datasheet

Overview: Controls

for Motor Series MODULARline and SOLIDline

Motors with intelligent controls for each application

GEIGER offers for every application in the sun protection area the appropriate motor intelligence. Different control concepts meet the requirements of ...

- ... the industry: efficient programming processes and low complaint ratios.
- ... the trades: easy installation and adjustment.
- ... the user: convenience and operational reliability.

Standardized motors with intelligent controls

Take advantage of the sophisticated series of motors with intelligent controls for all construction or renovation projects.

Customized motors with intelligent controls

The optimized manufacturing processes used by rolling shutters and awning manufacturers make it necessary to have customized controls. GEIGER meets the requirements of its customers by providing individualized controls that fit easily into existing production processes.

GEIGER Training Center + Service Hotline

Our GEIGER designing engineers always make sure to develop easy manufacturing and assembling processes. In this context we also offer comprehensive customer training programs at our brand new training center. Our customer service team and our technical support department are happy to assist you. If you would like to contact them, please ring our hotline. Our specialists will provide customer support wherever and whenever needed.

Made by GEIGER

GEIGER relies on Germany as production location: the GEIGER motors are developed and produced in Germany. This situation allows an optimal combination of R & D, manufacturing processes and quality management. Our clients benefit from:

- ▶ **Low noise motors**
- ▶ **Low energy consumption, a big plus factor today**
- ▶ **Low heating of the engine which means a longer period of time for adjustment purposes**
- ▶ **High quality radio system**

This overview enables the user to:

- select the optimal motor controls combination for the desired application.
- view all the features of the selected control together with an explanation of the terms used.
- compare the on-site conditions with the features required for the application of the various motor controls.

SOLIDline (GU45..)										MODULARline (GR45..)											
SoftWireless-55	SoftZeroWireless-55	SoftZeroWireless	SoftPlusWireless	VariousWireless	SoftLock	SoftReverse	SoftPerfection-S	SoftPerfection-/Zero	SoftPlus-Oi	SoftPlus-DG	SoftPlus	SoftZero-55	SoftZero	Easy	Spindle	Touch	VariousWireless	SoftPerfection-S	SoftPerfection-/Zero	Easy	Touch
GU45..F02	GU45..F02	GU45..F02	GU45..F01	GU45..E07	GU45..E06	GU45..E04	GU45..E03	GU45..E02	GU45..E02	GU45..E02	GU45..E01	GU45..M01	GU45..M01	GR45..F01	GR45..E04	GR45..E03	GR45..E01	GR45..M	GR45..M	GR45..E01	GR45..M
F	F	F	F	F	E	E	E	E	E	E	E	E	E	M	M	M	F	E	E	E	M

- ① Optimally suited
- ② Also suitable
- ③ According to design
- ④ With COM motor head
- ⊗ Special features
- Applicable
- Partly applicable

Range of application																							
																							Rolling shutters without stoppers / without anti-lift device
																							Rolling shutters with stoppers / without anti-lift device
																							Rolling shutters without stoppers / with anti-lift device
																							Rolling shutters with stoppers / with anti-lift device
																							Open style folding arm awnings
																							Cassette awnings
																							Cassette awnings with double folding arms/Winter garden awnings
																							Facade awnings/Screens
																							ZIP screens
																							Sun protection installation with locking mechanism
																							Side awnings
																							On request
																							Pergola systems, sunshades and sun sails
Special Features																							
																							1-button technology
																							2-button technology
																							Antifreeze protection
																							GEIGER locking power reduction (hanging protection)
																							GEIGER Powertronic
																							GEIGER Soft position (hanging protection)
																							GEIGER synchronous position (hanging protection)
																							GEIGER operating radius identification
																							Hanging length adjustment
																							Intermediary position
																							Cloth tensioning position
																							Obstacle detection in UP direction
																							Obstacle detection in DOWN direction
																							Blocking detection in DOWN direction
																							Burglary resistance (in connection with anti-lift device)
																							Easy operation: Plug & Play
																							Operation with manual override crank
Notes																							
																							UPPER stop necessary
																							LOWER stop necessary
																							UPPER stop not necessary
																							LOWER stop not necessary
																							No stops
																							UPPER torque shutoff (only learning / reference runs)
																							LOWER torque shutoff (only learning / reference runs)
																							Constant UPPER torque shutoff
																							Constant LOWER torque shutoff
																							Stoppers and anti-lift devices are necessary
																							Stoppers and anti-lift devices can be used
																							Required minimum travel distance: 2.20 m
																							Automatic detection left/right assembly
																							Setting cable required for commissioning
																							Cable (SO) can be used for start-up
																							No installation switches with simultaneous UP and DOWN order
																							Motors are switchable in parallel
																							Magnetic shaft must be installed

Antifreeze protection

- The situation «hanging frozen to the window sill», is recognized by the system and the hanging will not be damaged.

GEIGER locking power reduction

- This electronic device detects the optimum closing force to be applied in order to close the cassette with a minimal force.

GEIGER Powertronic

- The GEIGER-Powertronic enables the user to change the motor's closing characteristics. The user can raise or reduce the closing power applied through the motor. This way, he or she influences the closing characteristics of the casing. A rise in the closing power causes a tighter closing of the casing with increased stress on the fabric; a reduction in the closing power causes a looser closing and less strain to the fabric.

GEIGER-Soft Position

- The hanging will stop before reaching the end positions.

GEIGER synchronous position

- The Geiger motor intelligence ensures that when rolling shutters of different sizes are mounted next to the other, the bottom laths are positioned on the same level. This is a really nice visual upgrade for the house facade.

GEIGER-Operating Radius Identification

- Modern electronic control identifies the equipment's torque curve, and makes available to the motor the exact amount of power needed during operation, and while closing.

Hanging Length Adjustment

- Modifications in hanging lengths are recognised and compensated for.

Hanging protection

- antifreeze protection
- GEIGER locking power reduction (automatic function)
- GEIGER Powertronic (manual function: power levels)
- GEIGER soft position (the hanging stops before reaching the end positions)

Obstacle detection in UP direction

- Protection of the system during retraction.

Blocking detection in DOWN direction

- Prevents the winding of the hanging inside the box.

Burglary resistance

- A torque shutoff is effected after each cycle in the lower end position. This makes it fairly difficult to lift up the curtain.

Commissioning via Plug & Play

- Only one run to the upper end position and to the lower end position is sufficient. **Done! Plug & Play!**

Technical data and dimensions

Specifications series MODULARline (GR45..)

	GR4510	GR4520
Voltage	230V~/50Hz	230V~/50Hz
Current	0,47 A	0,63 A
Cos Phi (cosφ)	>0,95	
Inrush current (factor)	x 1,2	
Power	105 W	140 W
Torque	10 Nm	20 Nm
Speed of rotation	16 1/min	
Protection type	IP 44	
Total length	400 mm	430 mm
Operating type	S2 4 min	S2 5 min
Diameter	45 mm	
Weight	approx. 1,5 kg	approx. 1,7 kg

Subject to technical modifications



Technical data of tubular motor SOLIDline-KS (GU45..)

	GU4506	GU4510	GU4520	GU4530	GU4540	GU4550 ³⁾
Voltage	230V~/50Hz					
Current	0,36 A	0,47 A	0,63 A	0,8 A	1,0 A	1,0 A
Cos Phi (cosφ)	>0,95					
Inrush current (factor)	x 1,2					
Power	83 W	105 W	140 W	180 W	220 W	220 W
Torque	6 Nm	10 Nm	20 Nm	30 Nm	40 Nm	50 Nm
Speed	16 rpm	16 rpm	16 rpm	16 rpm	16 rpm	12 rpm
Protection class	IP 44					
Total length¹⁾	506,5 mm	516,5 mm	546,5 mm	566,5 mm	586,5 mm	586,5 mm
Operating mode	S2 4 min	S2 4 min	S2 5 min	S2 4 min	S2 4 min	S2 4 min
Sound pressure level²⁾	39 dB(A)	39 dB(A)	41 dB(A)	41 dB(A)	43 dB(A)	-
Diameter	45 mm					
Weight	approx. 1,85 kg	approx. 1,90 kg	approx. 2,20 kg	approx. 2,40 kg	approx. 2,70 kg	approx. 2,70 kg

Storage temperature/Humidity T = -15°C .. +70°C / dry and non-condensing place

¹⁾ SOLIDline-COM: + 3,5 mm / SOLIDline-SOC: + 3 mm / SOLIDline-SIL: ± 0 mm (without trunnion)

²⁾ The average sound pressure level data are intended for guidance only. The values were determined by GEIGER at a distance of 1 m, with a hanging motor at idle speed and averaged over 10 seconds. There is no reference to any specific test standard.

³⁾ GU4550 is only available with motor head KS and SOC and CE-certification.

Subject to technical modifications

